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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 6456 (1972): Double Row Radial Ball Bearings [PGD 13:
Bearing]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

Invent a New India Using Knowledge



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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AMENDMENT NO. 1 SEPTEMBER 1999
TO
IS 6456 : 1972 SPECIFICATION FOR DOUBLE ROW
RADIAL BALL BEARINGS

(*Page 1, clause 1*) — Insert the following new clause after 1 and renumber the subsequent clauses:

'2 REFERENCES

'The following Indian Standards contain provisions which through reference in this text, constitute provision of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

<i>IS /ISO No.</i>	<i>Title</i>
IS 2398 : 1967	Identification code for rolling bearings
IS 2399 : 1988/ ISO 5593 : 1984	Rolling bearings — Vocabulary (<i>first revision</i>)
IS 5669 : 1987/ ISO 15 : 1981	General plan of boundary dimensions for radial rolling bearings (<i>first revision</i>)
IS 5692 : 1988	Tolerance for radial rolling bearings (<i>first revision</i>)
IS 5935 : 1992	Radial internal clearance in unloaded radial rolling bearings (<i>first revision</i>)
IS 6453 : 1984	Technical supply conditions for rolling bearings (<i>first revision</i>)'

[*Page 1, clause 2 (renumbered 3)*] — Substitute 'IS 2399' for 'IS 2399 : 1964 Glossary of terms relating to rolling bearings'.

[*Page 1, clause 3.1 (renumbered 4.1)*] — Substitute 'IS 2398' for 'IS 2398 : 1967 Identification code for rolling bearings'.

[*Page 1, clause 4 (renumbered 5)*] — Substitute 'IS 2398' for 'IS 2398 : 1967'.

Amend No. 1 to IS 6456 : 1972

[*Page 1, clause 5.1 (renumbered 6.1)*] — Substitute 'IS 5669' for 'IS 5669 : 1970 General plan of boundary dimensions for radial rolling bearings'.

[*Page 1, clause 5.2 (renumbered 6.2)*] — Substitute 'IS 5692' for 'IS 5692 : 1970 Tolerances for radial rolling bearings'.

[*Page 1, clause 5.3 (renumbered 6.3)*] — Substitute 'IS 5935' for 'IS 5935 : 1970 Radial internal clearances in unloaded radial rolling bearings'.

[*Page 1, clause 6 (renumbered 7)*] — Substitute 'IS 6453' for 'IS 6453 : 1972 Technical supply conditions for rolling bearings'.

(LM 12)

Indian Standard
**SPECIFICATION FOR
DOUBLE ROW RADIAL BALL BEARINGS**

1. Scope — Requirements for double row radial ball bearings.**2. Terminology — As given in IS : 2399-1964 'Glossary of terms relating to rolling bearings'.****3. Types**

- a) Radial contact,
- b) Angular contact, and
- c) Self-aligning.

3.1 Variations in the above types shall conform to IS : 2398-1967 'Identification code for rolling bearings'.

4. Symbols — Conforming to IS : 2398-1967.**5. Dimensions and Tolerances**

5.1 Boundary Dimensions — Dimensions shall conform to dimension series 39, 10, 30, 02, 12, 22, 32, 03, 13, 23, 33 and 04 of IS : 5669-1970 'General plan of boundary dimensions for radial rolling bearings'.

5.2 Tolerances — Tolerances on the boundary dimensions shall conform to IS : 5692-1970 'Tolerances for radial rolling bearings'.

5.3 Radial Clearances — Shall conform to IS : 5935-1970 'Radial internal clearances in unloaded radial rolling bearings'.

6. General Requirements — Other requirements for the bearings shall conform to IS : 6453-1972 'Technical supply conditions for rolling bearings'.

7. Designation — Typical examples:

Sl. No.	Order of Designating Symbols Description	Bore Dia of Bear- ing	Type*	Width and Outside Dia Series (Dimen- sion Series)	Supple- mentary Code (if Required for any Modifi- cation in Design)†	Number of This Standard	Tole- rance Class‡	Radial Clear- ance Group§	Complete Designation
		000	AAA	00	AAAA	IS : 6456	PO	CO	
I)	Radial ball-bearing, bore dia 50 mm, double row, self-aligning; raceway of outer ring spherical; dimension series 02; tolerance class normal; radial clearance group normal	50	BS	02	—	IS : 6456	—	—	50 BS 02 IS : 6456
II)	Same bearing as Sl No. (I) but with tolerance class 5	50	BS	02	—	IS : 6456	P5	—	50 BS 02 IS : 6456 P5
III)	Same bearing as Sl No. (I) but with radial clearance group 3	50	BS	02	—	IS : 6456	—	C3	50 BS 02 IS : 6456 C3
IV)	Same bearing as Sl No. (I) but with tolerance class 5 and radial clearance group 3	50	BS	02	—	IS : 6456	P5	C3	50 BS 02 IS : 6456 P5 C3
V)	Bearing of Sl No. (IV) having a cage in steel sheet or stripform, centred by rolling elements and having a tapered bore 1 : 12	50	BS	02	JXXK	IS : 6456	P5	C3	50 BS 02 JXXK IS : 6456 P5 C3

*In accordance with 3.3.1 of IS : 2398-1967.

†In accordance with 3.4 of IS : 2398-1967.

‡In accordance with 5.2.

§In accordance with 5.3.